



# Iowa Influenza Surveillance Network (IISN)

## Influenza-like Illness (ILI) and Other Respiratory Viruses

### Summer Monthly Report

May 24 (Week 21) – June 28 (Week 26), 2014



#### Iowa statewide activity summary

Influenza activity in Iowa is very low. There was one laboratory confirmed case of influenza type B reported and one case of influenza A (H3) reported in June. Other respiratory viruses reported in this period includes 52 cases of rhinovirus/enterovirus, 12 cases of adenovirus, 11 cases of human metapneumovirus, 31 cases of parainfluenza 3, two cases of parainfluenza 1, one case of parainfluenza 2, and one case of respiratory syncytial virus (RSV).

#### National activity summary - [www.cdc.gov](http://www.cdc.gov)

Condensed reports over the summer months are available at <http://www.cdc.gov/flu/weekly/>

#### International activity summary - [www.who.int](http://www.who.int)

Globally influenza activity remained low, with gradual increase of influenza activity in the southern hemisphere, however in Chile influenza activity was relatively high. In North America and Europe, overall influenza activity remained at inter-seasonal levels. In eastern Asia, influenza activity reached inter-seasonal levels in most countries with influenza A(H3N2) and influenza B virus predominating, although influenza activity was still slightly increasing in the south region of China, mainly due to influenza A(H3N2) viruses. In southern and south-eastern Asia, Influenza activity continued to decline, except for Singapore that showed a sustained increase in influenza detection rates, even while the rate for influenza-like illness (ILI) activity and acute respiratory infections remained low. In northern Africa and western Asia, influenza activity remained low.

#### Laboratory surveillance program – influenza and other respiratory viruses

The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network on a daily basis. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

#### Specimens tested by the State Hygienic Laboratory

**Table 1. Influenza viruses isolated by SHL**

	<i>Week 21-26</i>	<i>Cumulative since 9/1/13</i>
<b>Flu A</b>	1 (14%)	644 (46%)
A (2009 H1N1)	0 (0%)	582 (41%)
A (H3)	1 (14%)	32 (2%)
A (H3N2) variant	0 (0%)	1 (<1%)
Subtyping not reported	0 (0%)	30 (2%)
<b>Flu B</b>	1(14%)	28 (2%)
<b>Equivocal</b>	0 (0%)	5 (<1%)
<b>Indeterminate</b>	0 (0%)	7 (<1%)
<b>Negative</b>	5 (71%)	730 (52%)
<b>Total</b>	7	1,414

**Table 2. Influenza viruses by age group 9/1/13 to present week**

<i>Age group</i>	<i>Flu A (2009 H1N1)</i>	<i>Flu A (H3)</i>	<i>Flu A (H3N2) Variant</i>	<i>Flu A (no typing)</i>	<i>Flu B</i>
<b>0-4</b>	87 (15%)	5 (16%)	*(*)	3 (10%)	2 (7%)
<b>5-17</b>	74 (13%)	1 (3%)	*(*)	2 (7%)	7 (25%)
<b>18-24</b>	84 (14%)	6 (19%)	0 (0%)	5 (17%)	2 (7%)
<b>25-49</b>	175 (30%)	4 (12%)	0 (0%)	6 (20%)	7 (25%)
<b>50-64</b>	91 (16%)	4 (12%)	0 (0%)	6 (20%)	2 (7%)
<b>&gt;64</b>	71 (12%)	12 (38%)	0 (0%)	8 (27%)	8 (29%)
<b>Total</b>	582	32	1	30	28

\* Counts of three or less are sometimes suppressed to protect confidentiality.  
Note that counts may not add up to the total due to missing age information

**Table 3. Number of positive results for non-influenza respiratory virus isolated by Mercy Dunes in Sioux City, and Iowa Methodist Medical Center**

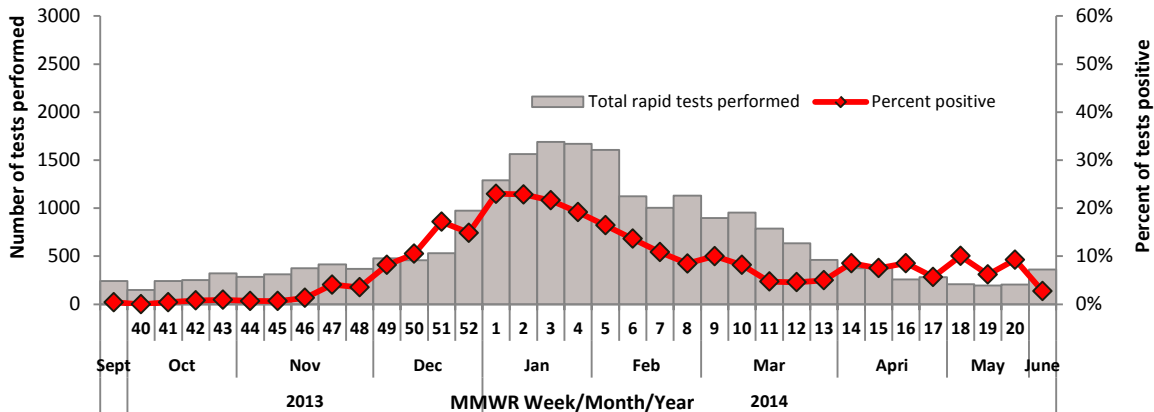
	<i>Week 21-26</i>	<i>Cumulative since 9/1/13</i>
<b>Adenovirus</b>	12	178
<b>Parainfluenza Virus Type 1</b>	2	49
<b>Parainfluenza Virus Type 2</b>	1	2
<b>Parainfluenza Virus Type 3</b>	31	68
<b>Parainfluenza Virus Type 4</b>	0	19
<b>Rhinovirus/Enterovirus</b>	58	628
<b>Respiratory syncytial virus (RSV)</b>	1	347
<b>human metapneumovirus (hMPV)</b>	11	135

**Table 4. Percent of influenza rapid tests positive and number of tests performed by region, June 2014**

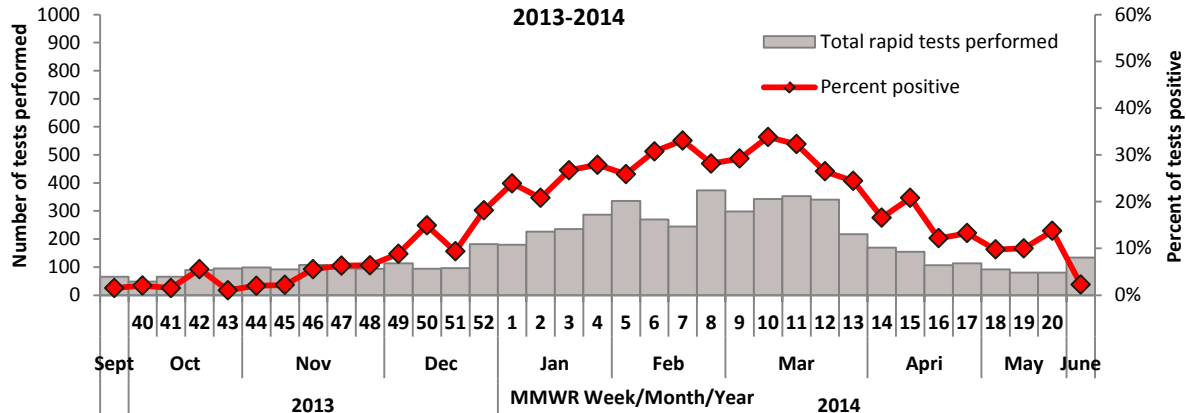
Region *	Influenza					RSV		
	Tested	Flu A	Flu B	Both	% Positive	Tested	Positive	% Positive
<b>Region 1</b>	59	4	4	0	6.8%	14	0	0.0%
<b>Region 2</b>	4	0	0	0	0.0%	8	0	0.0%
<b>Region 3</b>	29	0	1	0	3.4%	13	1	7.7%
<b>Region 4</b>	10	0	0	0	0.0%	6	1	16.7%
<b>Region 5</b>	57	0	1	0	1.8%	16	0	0.0%
<b>Region 6</b>	202	3	1	0	2.0%	77	1	1.3%

\*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright; Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adair, Adams, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.

**Percent of influenza rapid tests positive and number of tests performed, 2013-2014**



**Percent of RSV rapid tests positive and number of tests performed, 2013-2014**



**Outpatient health care provider surveillance program (ILINet)**

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa’s influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Kemi Oni at 515-725-2136 or [oluwakemi.oni@idph.iowa.gov](mailto:oluwakemi.oni@idph.iowa.gov) for more information.

